

## Report Information

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# Inline Metrology Market Research Report - Global Forecast till 2030

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## Description:

### Global Inline Metrology Market Overview:

The Inline Metrology Market Size was valued at USD 0.55 Billion in 2022. The Inline Metrology industry is projected to grow from USD 0.63 Billion in 2023 to USD 1.21 Billion by 2030, exhibiting a compound annual growth rate (CAGR) of 10.27% during the forecast period (2023 - 2030). Inline metrology is a type of measurement technique used in manufacturing and quality control processes. The term "inline" refers to the fact that the measurements are taken in real-time and integrated directly into the production line, without the need for stopping the process or removing the product. Inline metrology can be used to measure various aspects of a product, such as its dimensions, surface characteristics, and overall quality. By using inline metrology, manufacturers can improve the efficiency and accuracy of their quality control processes, as well as reduce the time and cost associated with traditional inspection methods.

Global Inline Metrology Market Overview

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

### Inline Metrology Market Trends

- Increase in Usage in the Electronics Sector

As there are different demands depending on the use, manufacturers have been concentrating on manufacturing innovative goods for certain applications. Inline metrology is being used more frequently in electronics sector applications such as touch panels, photovoltaics, displays, OLED/OPV, glass coating, and other devices. Non-contact measurements can be used to regulate the industrial thin film manufacturing process. Additionally, these inline metrology systems provide customization.

### Inline Metrology Market Segment Insights:

#### Inline Metrology Product Insights

The market segmentation, based on Product, includes Coordinate measuring machines (CMM), Machine vision systems, Multisensor measuring systems, Optical scanners, Laser trackers, and Others. The Multisensor measuring systems segment holds the majority share in 2022, contributing to the global Inline Metrology revenue. This is due to the increasing popularity of inline metrology because they allow manufacturers to perform a wider range of measurements, including dimensional measurements, surface measurements, and form measurements, in a single system. This helps to improve the accuracy and efficiency of the inline metrology process, reducing the time and cost associated with traditional inspection methods.

#### Inline Metrology Application Insights

Based on Application, the market segmentation includes Quality control and inspection, Reverse engineering, and Others. The Quality control and inspection segment dominated the market. This helps to improve the efficiency and speed of the quality control process and reduce the time and cost associated with traditional inspection methods.

#### Inline Metrology Vertical Insights

Based on Vertical, the market segmentation includes Automotive, Aerospace, Semiconductors, Energy & Power, and Others. The Automotive segment is the largest segment of the market. Due to the growing demand for higher-quality vehicles and the need to improve the efficiency and speed of

the manufacturing process. Inline metrology provides manufacturers with real-time and highly accurate measurements, reducing the need for separate quality control processes and helping to improve the overall efficiency of the manufacturing process.

**Figure 2: Inline Metrology Market, by Vertical, 2022 & 2030 (USD Million)**

**Inline Metrology Market, by Vertical, 2022 & 2030**

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

**Inline Metrology Regional Insights**

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The global market was topped by North America. The market in this area is anticipated to be driven by the increasing usage of AI and IoT technologies as well as the increasing integration of automation in industrial facilities. The projection period is expected to see the fastest growth in the Asia-Pacific region. Inline metrology systems are employed for quality control inspections at many of the region's car and electronics production facilities. The need for inline metrology systems is thus anticipated to grow quickly in this area.

**Figure 3: Inline Metrology Market SHARE BY REGION 2022 (%)**

**Inline Metrology Market SHARE BY REGION 2022**

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

The North American region is expected to expand significantly at a CAGR. The market is expanding as a result of the growing integration of connected technologies. However, due to commercial organizations' increasing adoption of VRF technology for energy savings and flexible designs.

**Inline Metrology Key Market Players & Competitive Insights**

Major market players are spending a lot of money on R&D to increase their product lines, which will help the market grow even more. Market participants are also taking various strategic initiatives to grow their worldwide footprint, with key market developments such as new product launches, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations. Competitors in the Inline Metrology industry must offer cost-effective items to expand and survive in an increasingly competitive and rising market environment.

Manufacturing locally to cut operating costs is one of the main business tactics manufacturers use in the global Inline Metrology industry to benefit customers and expand the market sector. Major market players, including Hexagon, Faro Technologies, Nikon Metrology Inc, LMI Technologies, and others, are attempting to increase market demand by funding R&D initiatives.

Hexagon is a business that focuses on sensors, software, and autonomous technologies. It works in two segments: Geospatial Enterprise Solutions and Industrial Enterprise Solutions. Sensors for data capture from land and air, as well as sensors for a satellite location, are included in the Geospatial Enterprise Solutions sector. The Industrial Enterprise Solutions section offers metrology systems, CAD and CAM software, and other products. The firm services aerospace, chemicals, automotive, electronics, government, shipbuilding, transportation, mining, and other industries.

FARO Technologies creates, develops, produces, sells, and offers support for software-driven 3D measuring, imaging, and realization systems. Its products are used for a variety of tasks, including checking parts and assemblies, production planning, recording huge areas or buildings in 3D, surveying, building, and investigating and recreating accident or crime scenes. The business provides services to shipbuilding, aerospace, defense, legal, and other industries.

**Key Companies in the Inline Metrology market include**

- Hexagon
- Faro Technologies
- Nikon Metrology Inc
- LMI Technologies
- Jenoptik Group
- Carl Zeiss
-

ABB Ltd

- Mitutoyo Corporation
- Ametek Inc
- Cognex Corporation

### **Inline Metrology Industry Developments**

**February 2023:** LMI Technologies (LMI) released its new Gocator 2540/50 high-speed wide field of view 3D laser line profile sensors.

**August 2022:** LMI Technologies (LMI) has announced the official availability of its new Gocator® 2600 Series of smart 3D laser line profile sensors with 4K+ resolution.

### **Inline Metrology Market Segmentation**

#### **Inline Metrology Product Outlook**

- Coordinate measuring machines (CMM)
- Machine vision systems
- Multisensor measuring systems
- Optical scanners
- Laser trackers
- Others

#### **Inline Metrology Application Outlook**

- Quality control and inspection
- Reverse engineering
- Others

#### **Inline Metrology Vertical Outlook**

- Automotive
- Aerospace
- Semiconductors

- Energy & power
- Others

## **Inline Metrology Regional Outlook**

- North America
  - US
  - Canada
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Spain
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Australia

- - South Korea
  - Australia
  - Rest of Asia-Pacific
- Rest of the World
  - Middle East
  - Africa
  - Latin America

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